

E6166

**OPTICAL HEAD FOR MAGNETO-OPTICAL RECORDING AND REPRODUCING DEVICE**

Patent Number: JP4123343  
Publication date: 1992-04-23  
Inventor(s): KOYAMA OSAMU  
Applicant(s):: CANON INC  
Requested Patent: ☐ JP4123343  
Application Number: JP19900245717 19900913  
Priority Number(s):  
IPC Classification: G11B11/10 ; G11B7/135  
EC Classification:  
Equivalents: JP2840413B2

**Abstract**

**PURPOSE:** To separate an overwrite spot and a verify spot in a desired light quantity ratio by inclining the optical axis of a second rectangular prism at 45 deg. to the direction of polarization of the luminous flux emitted from the third end face of a first rectangular prism and making the optical axis of a third prism orthogonal to the second rectangular prism.

**CONSTITUTION:** Light is separated to the overwrite beam and the verify beam in directions of polarization orthogonal to each other in a prescribed light quantity ratio by a uniaxial crystal prism 16-1, and they are made incident on a magneto-optical disk. They are condensed as an overwrite spot and a verify spot on the disk, and respective reflected beams are allowed to pass a uniaxial crystal rectangular prism 16-2, which is joined to the prism 16-1 and has the optical axis inclined at 45 deg. to the direction of polarization of the incident beam to the magneto-optical disk in a plane perpendicular to the reflected beam, and a uniaxial crystal rectangular prism 16-3, which is joined to the prism 16-2 and has the optical axis orthogonal to the prism 16-2, and are separated to four beams whose directions of polarization are orthogonal to one another. Thus, photomagnetic signals of the overwrite beam and the verify beam are obtained.



Data supplied from the esp@cenet database - I2

TOP

**THIS PAGE BLANK (USPTO)**